

**Introduction to Earth Science** ▪ *Guided Reading and Study*

## The Nature of Technology

*This section explains what technology is, how it differs from science, and how it affects society.*

### Use Target Reading Skill

*Before you read, look at the section headings and visuals to see what this section is about. Write what you know about technology in the top box of the graphic organizer. As you read, write what you learn in the bottom box.*

What You Know
1.
2.
3.

What You Learned
1.
2.
3.

### What Is Technology?

1. What is technology?

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2. Circle the letter of each example of technology.

- a. computer
- b. spoon
- c. tree
- d. wheel

3. Is the following sentence true or false? The process used to produce a CD player is an example of technology. \_\_\_\_\_

4. What is the goal of technology?

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**Introduction to Earth Science** ▪ *Guided Reading and Study***What Is Technology?** *(continued)*

*In the table below, list the six major areas into which technology can be classified. Give an example of each. (Hint: Refer to Figure 9, Areas of Technology.)*

**Major Areas of Technology**

Major Area	Example
5.	
6.	
7.	
8.	
9.	
10.	

**How Does Technology Relate to Science?**

11. How are the purposes of science and technology different?

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12. Circle the letter of each area of study that an engineer might work on.

- a. how wind can be harnessed to produce electricity
- b. how light travels through substances
- c. how air currents form
- d. how to develop optical fibers

13. Is the following sentence true or false? Advances in technology never depend on advances in science. \_\_\_\_\_

**Technology's Impact on Society**

14. What is society?

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15. In every age of history, \_\_\_\_\_ has had a large impact on society.

16. Circle the letter of each new technology of the Information Age.

- a. water wheel
- b. super-fast computer
- c. cellular phone
- d. chisel